



Public Safety Communications Advisory Commission

Standard

Land Mobile Radio Minimum Equipment Standard

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Distribution Statement: This is a public document. The Point of Contact (POC) for this document is the Public Safety Interoperable Communications (PSIC) Office in the Arizona Department of Administration – Arizona Strategic Enterprise Technology Office (ADOA-ASET). Current contact information for the PSIC Office can be found at www.azpsic.gov.

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Record of Changes

This Record of Changes is used to record revisions to this document, including a brief description of the changes made, the date the changes went into effect by approval of the PSCC, and the appropriate PSIC Office Contact.

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1 Introduction

1.1 Background

The Arizona Public Safety Communications Advisory Commission (PSCC) and Statewide Interoperability Executive Committee (SIEC) continually work to develop guidelines, recommendations and standards intended to promote public safety interoperable radio communications for all Arizona first responders. Under A.R.S. 41-3542, the PSCC is responsible for the development of a standard based system that provides interoperability of public safety agencies' communications statewide.

As outlined in Arizona's Statewide Communications Interoperability Plan (SCIP), Arizona's strategy for improving interoperable communications by leveraging existing assets, agreements, and funding sources is to pursue a system-of-systems approach to interoperable communications that leverages connections between separate local, regional, and/or state operated systems for public safety emergency response communications.

All mobile and portable radio equipment purchased through Homeland Security grants or other federal grant sources are required to meet or exceed certain standards¹. In addition, agencies with an ongoing need to interoperate with federal agencies should meet these standards regardless of the funding source used to purchase the equipment.

1.2 Purpose

The purpose of this document is to establish land mobile radio equipment standards that, if followed, will facilitate interoperability between jurisdictions and disciplines at all levels of government. It is recommended that all mobile and portable radio equipment purchased for the purposes of public safety emergency response communications meet or exceed these minimum standards.

1.3 Updates & Revisions

Those wishing to suggest revisions or additions to this document should send their feedback electronically to psic@azpsic.gov or in writing to the PSIC Office, c/o Arizona Strategic Enterprise Technology (ASET) Office at 100 N 15th Avenue, Suite 400, Phoenix, AZ 85007.

Revisions to this document will be reviewed by the appropriate Workgroup, which will recommend appropriate changes to the SIEC. The SIEC must then approve all such changes and submit them for approval to the PSCC. Revised versions of this document will be effective once approved by the PSCC.

¹ <http://www.safecomprogram.gov/library/lists/library/DispForm.aspx?ID=334>

2 Standard

The following standards implement certain radio features, nationally recognized to promote and maintain a higher level of interoperable communications among and between public safety jurisdictions and disciplines.

MOBILE - PORTABLES MINIMUM STANDARDS

BAND	MINIMUM CHANNEL	CHANNEL DISPLAY	FREQUENCY RANGE	NARROWBAND CAPABLE	PROJECT 25 ^{2,3}
VHF	48 CH OR GREATER	7 CHAR OR GREATER	150 – 174 MHz	REQUIRED	CAPABLE
UHF	48 CH OR GREATER	7 CHAR OR GREATER	450 – 470 MHz	REQUIRED	CAPABLE
700 MHz ⁴	48 CH OR GREATER	7 CHAR OR GREATER	769 – 775 MHz 799 – 805 MHz	REQUIRED	REQUIRED
800 MHz ⁴	48 CH OR GREATER	7 CHAR OR GREATER	806 – 824 MHz 851 – 869 MHz	REQUIRED	REQUIRED

² Refer to the Responder Knowledge Base (RKB) to identify equipment that is certified by the P25 Compliance Assessment Program (P25 CAP). For more information, see: <https://www.rkb.us/search.cfm?typeid=2>.

³ Refer to the Office of Interoperability and Compatibility (OIC) guidelines at the Public Safety Communications Research Program (PSCR) web-site: http://www.pscr.gov/outreach/safecom/grant_guidance/grant_charts.php.

⁴ Contact the ARRC or RPC (Region 3) to assure the availability and management of frequencies.